**Syntax for Tableau Intermediate Training**

**Syntax 1:** Yearly aggregations (p. 24)

IF YEAR([Date Added]) == 2017 THEN [Requests] END

Automating YTD and LYTD aggregations (p. 28)

**Syntax 2:** Current year

SUM(IF DATEDIFF('year', DATETRUNC('year',[Date Added]),{MAX(DATETRUNC('year',[Date Added]))})=0

THEN [Requests]

END)

**Syntax 3:** Previous year

SUM(IF DATEDIFF('year', DATETRUNC('year',[Date Added]),{MAX(DATETRUNC('year',[Date Added]))})=1

THEN [Requests]

END)

**Syntax 4:** Current YTD vs. Previous YTD Change (p. 35)[[1]](#footnote-1)

{MAX([Date Added])}

(MONTH([Date Added]) < MONTH([Max Date]) OR (MONTH([Date Added]) = MONTH([Max Date])

AND DAY([Date Added]) <= DAY([Max Date]))) AND YEAR([Date Added]) >= YEAR([Max Date])-1

**Syntax 5:** Find maximum value within data viz window (p. 54)

IF SUM([Requests]) = WINDOW\_MAX(SUM([Request])) THEN SUM([Request]) END

**Syntax 6:** Change date granularity to chosen parameter value. (p. 72)

CASE [Date granularity]

WHEN "Day" THEN DATETRUNC('day',[Date Added])

WHEN "Week" THEN DATETRUNC('week', [Date Added])

WHEN "Month" THEN DATETRUNC('month',[Date Added])

WHEN "Quarter" THEN DATETRUNC('quarter', [Date Added])

WHEN "Year" THEN DATETRUNC('year', [Date Added])

END

**Syntax 7:** If a data field is empty then give it a value of 1, otherwise give it a value of 0. (p. 79)

IF ISNULL([Date Resolved])

THEN "Unresolved"

ELSE "Resolved"

END

**Syntax 8:** Show the Google Street view image of the coordinates selected in Tableau (p. 86)

https://www.dataplusscience.com/iframe.html?url=https://maps.google.com/maps?q=<AVG(Latitude)>,<AVG(Longitude)>&layer=c&z=17&sll=<AVG(Latitude)>,<AVG(Longitude)>&cbp=13,276.3,0,0,0&cbll=<AVG(Latitude)>,<AVG(Longitude)>&hl=en&ved=0CAoQ2wU&sa=X&iwloc=near&output=svembed&layer=c

1. Fiscal YTD current year and fiscal YTD previous year calculation:

   ([Date Added] >= DATE(STR(DATEPART('year',DATEADD('month',3,[Max Date]))-1) + "-10-01")

   AND [Date Added] <= [Max Date])

   OR

   ([Date Added] >= DATE(STR(DATEPART('year',DATEADD('month',3, [Max Date] ))-2) + "-10-01")

   AND [Date Added] <= DATEADD('year',-1,[Max Date]))

   *Also change the default date settings from calendar year to fiscal year.* [↑](#footnote-ref-1)